

10 13a 13b 13c 14 14' 16a 16d 18 12 12'

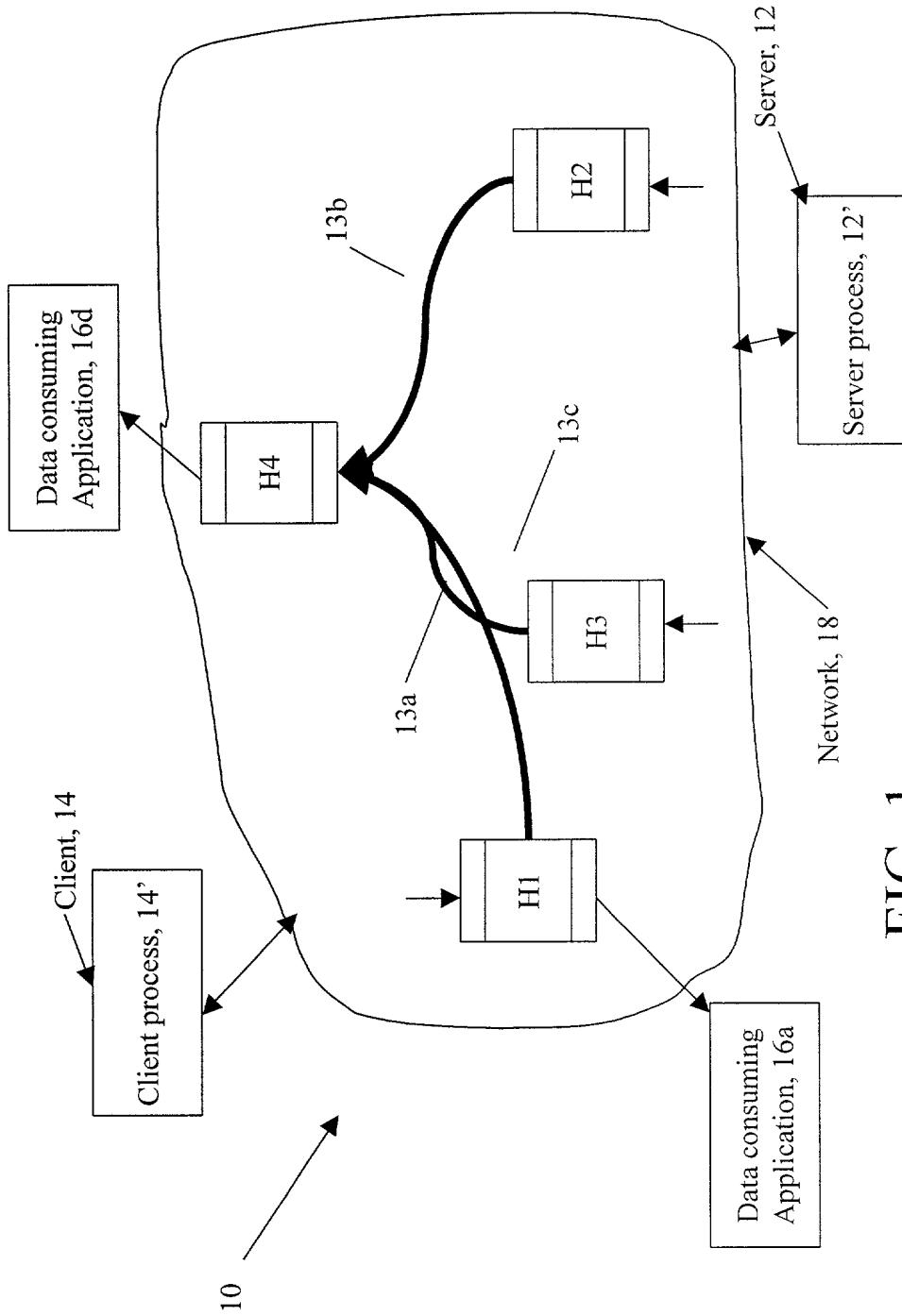


FIG. 1

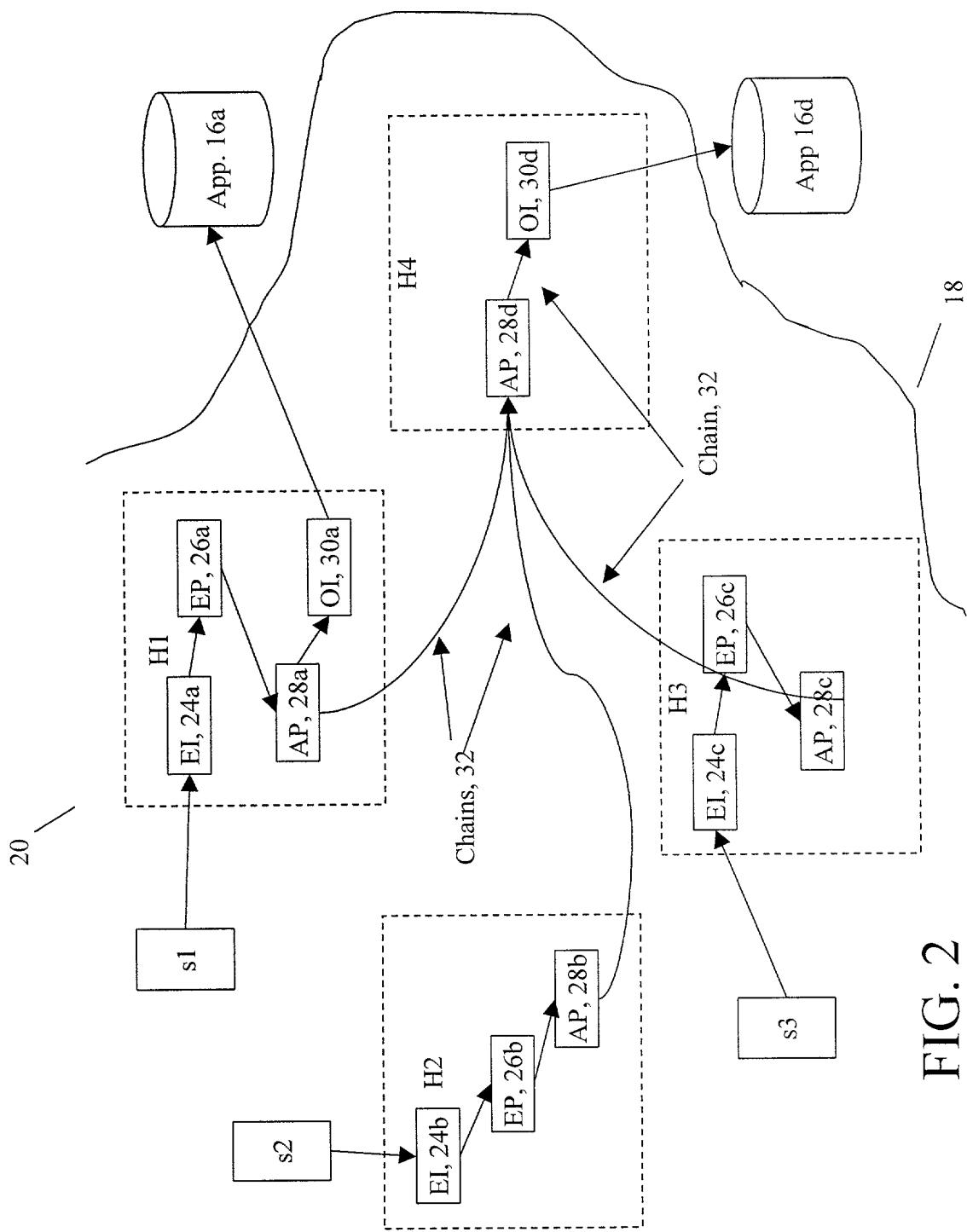
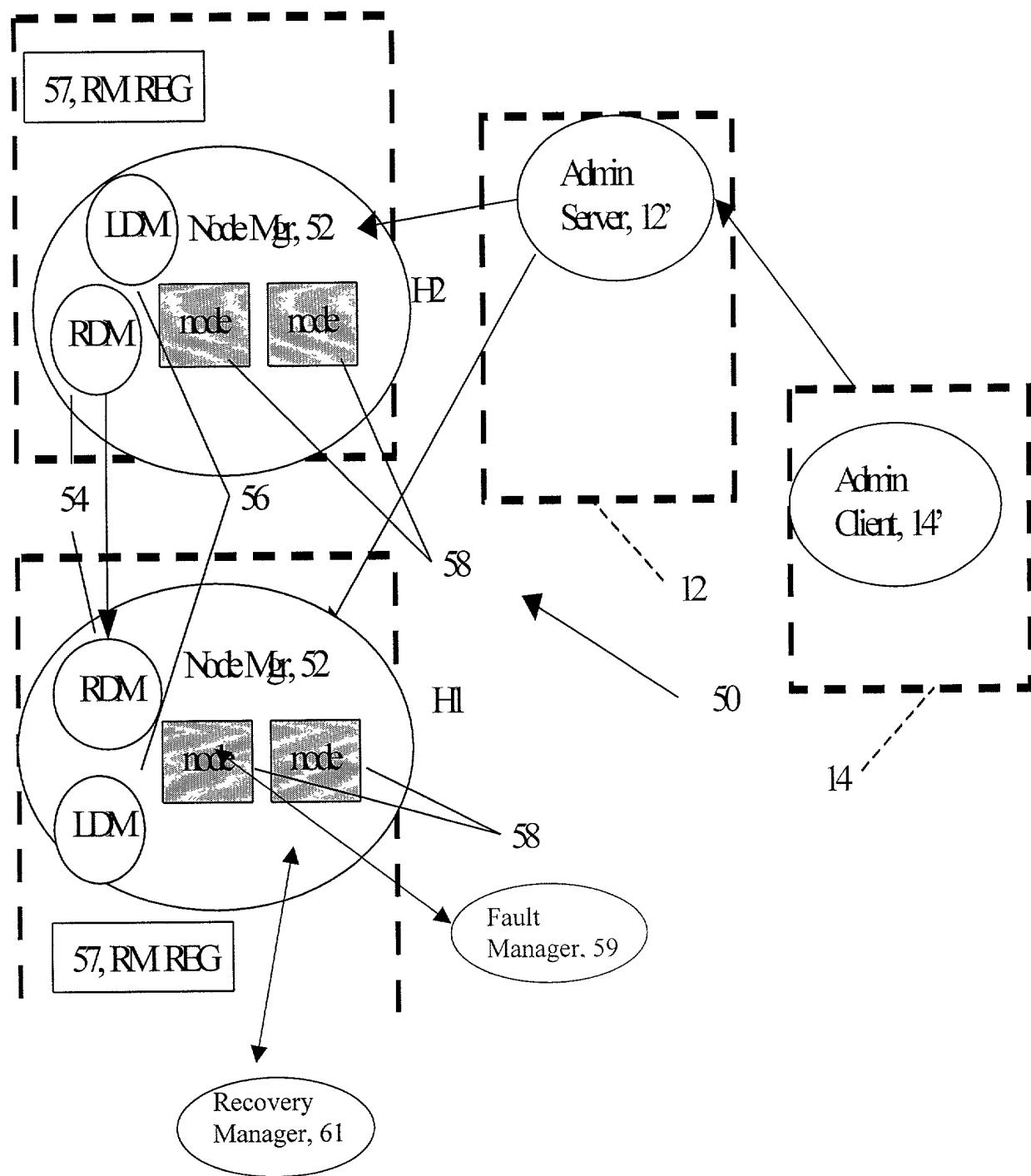


FIG. 2

FIG. 3

A vertical column of text on the left edge of the diagram reads: "RECEIVED IN THE UNITED STATES PATENT AND TRADEMARK OFFICE NOVEMBER 12, 2010. REFERENCE NUMBER: 11873-010001. FILED NOVEMBER 12, 2010." It is oriented vertically from top to bottom.



## FIG. 4

/ /input/24b	The input queues are where nodes
/26b	look for files to process
/28b	
/28d	
/ /output/24b	The output queues are where nodes
/26b	write their post-processed files
/28b	
/ /scratch/24b	The scratch queues is used by the
/25b	node to persist data
/28b	



82, MASTER DATA FLOW MAP

Node	Destination	Queue

Node	Destination	Queue

Node	Destination	Queue

84i, NODE DATA FLOW MAP

FIG. 5

84a, NODE DATA FLOW MAP

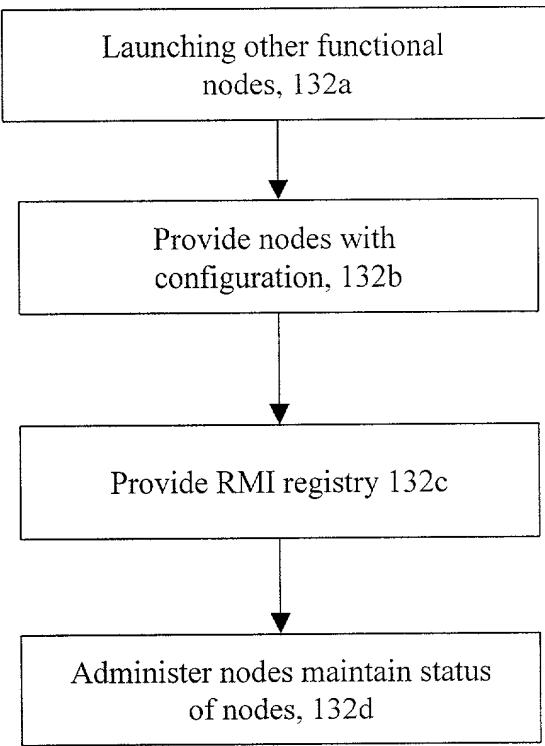
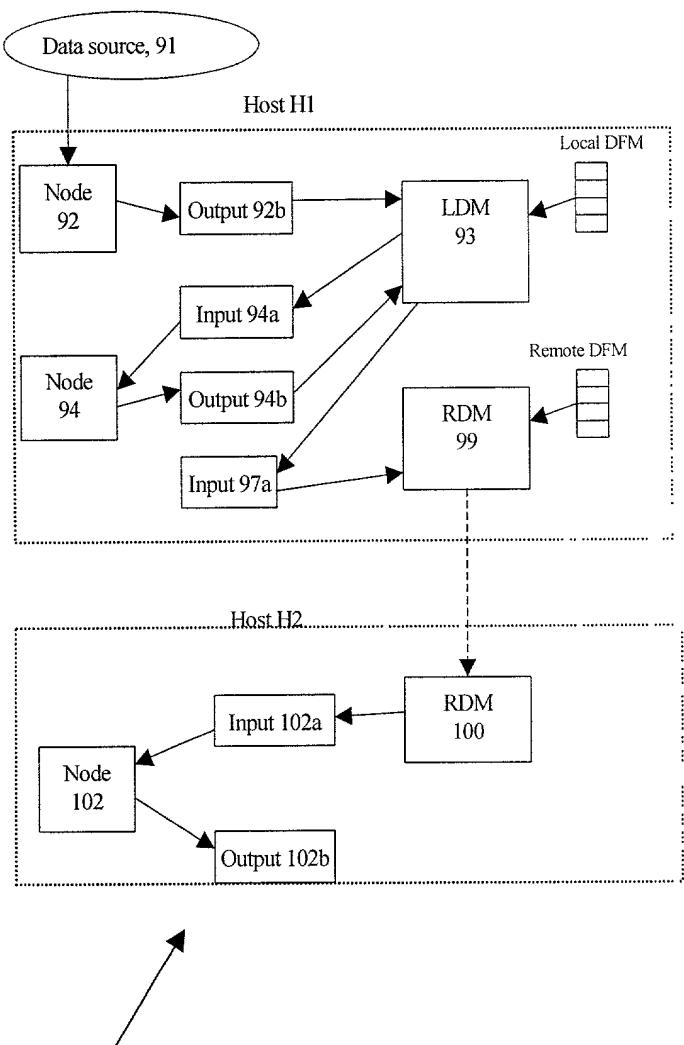


FIG. 6

FIG. 7



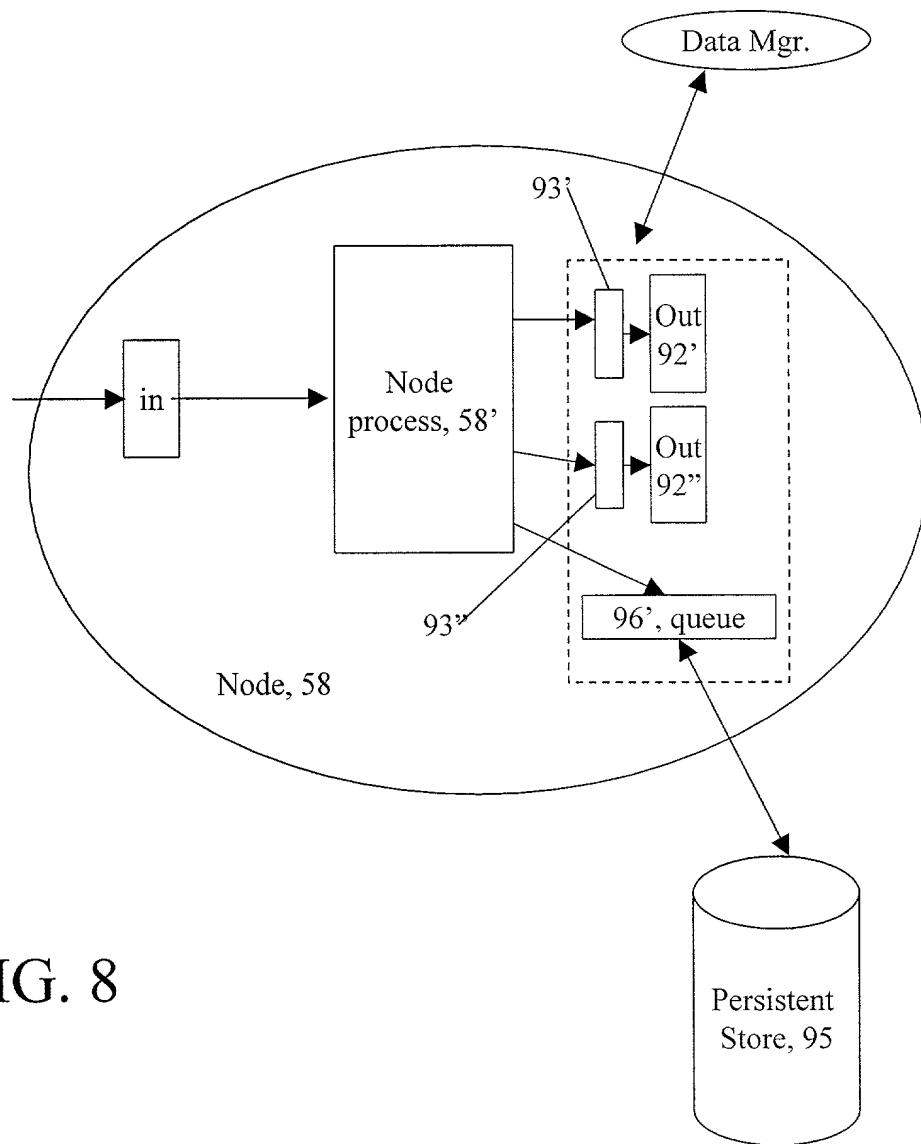


FIG. 8

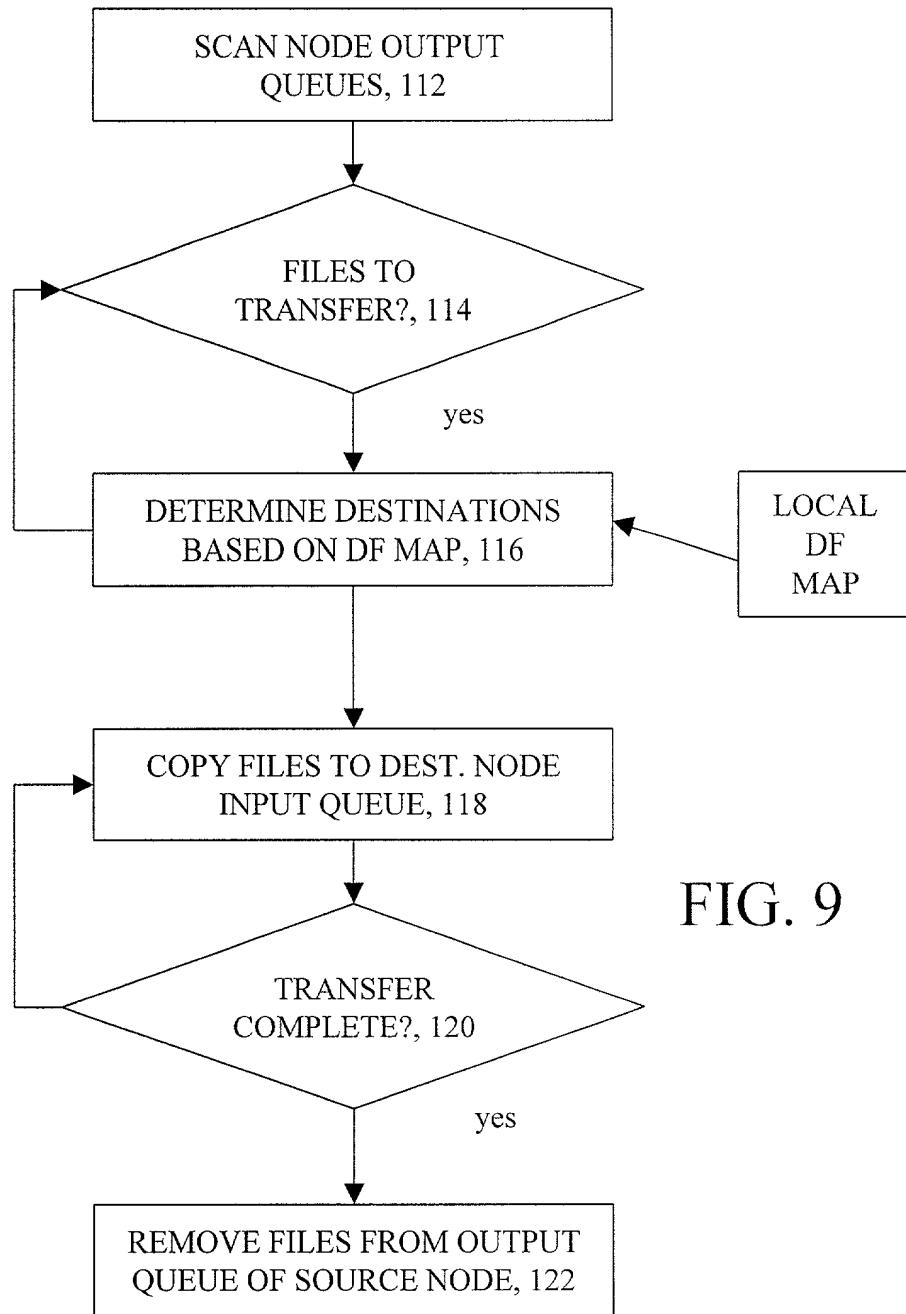


FIG. 9

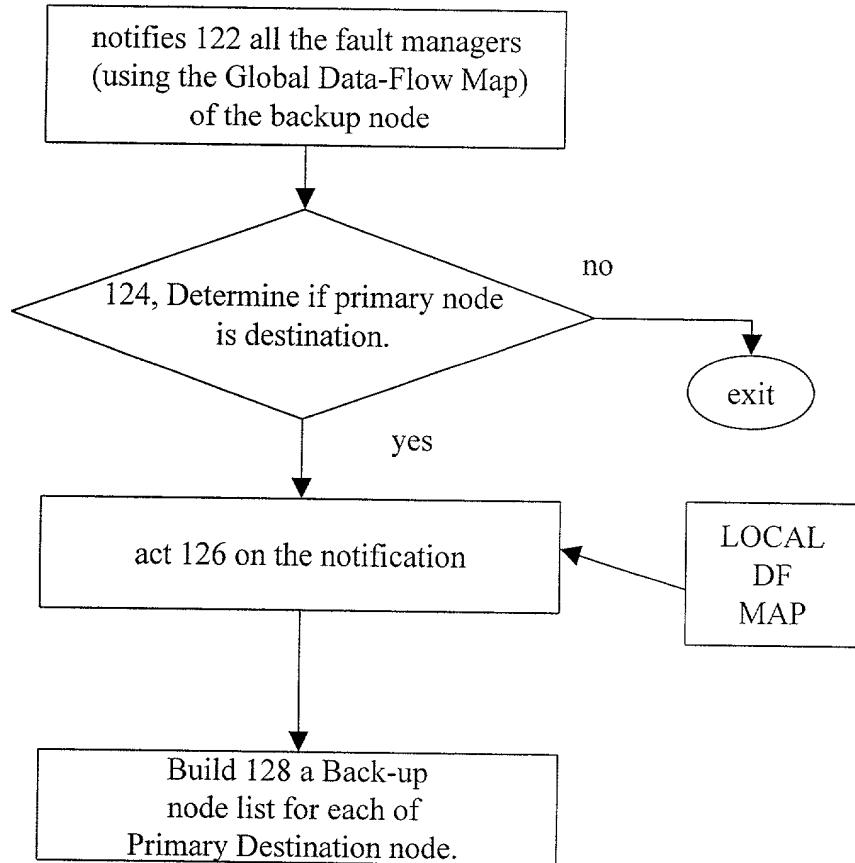


FIG. 10

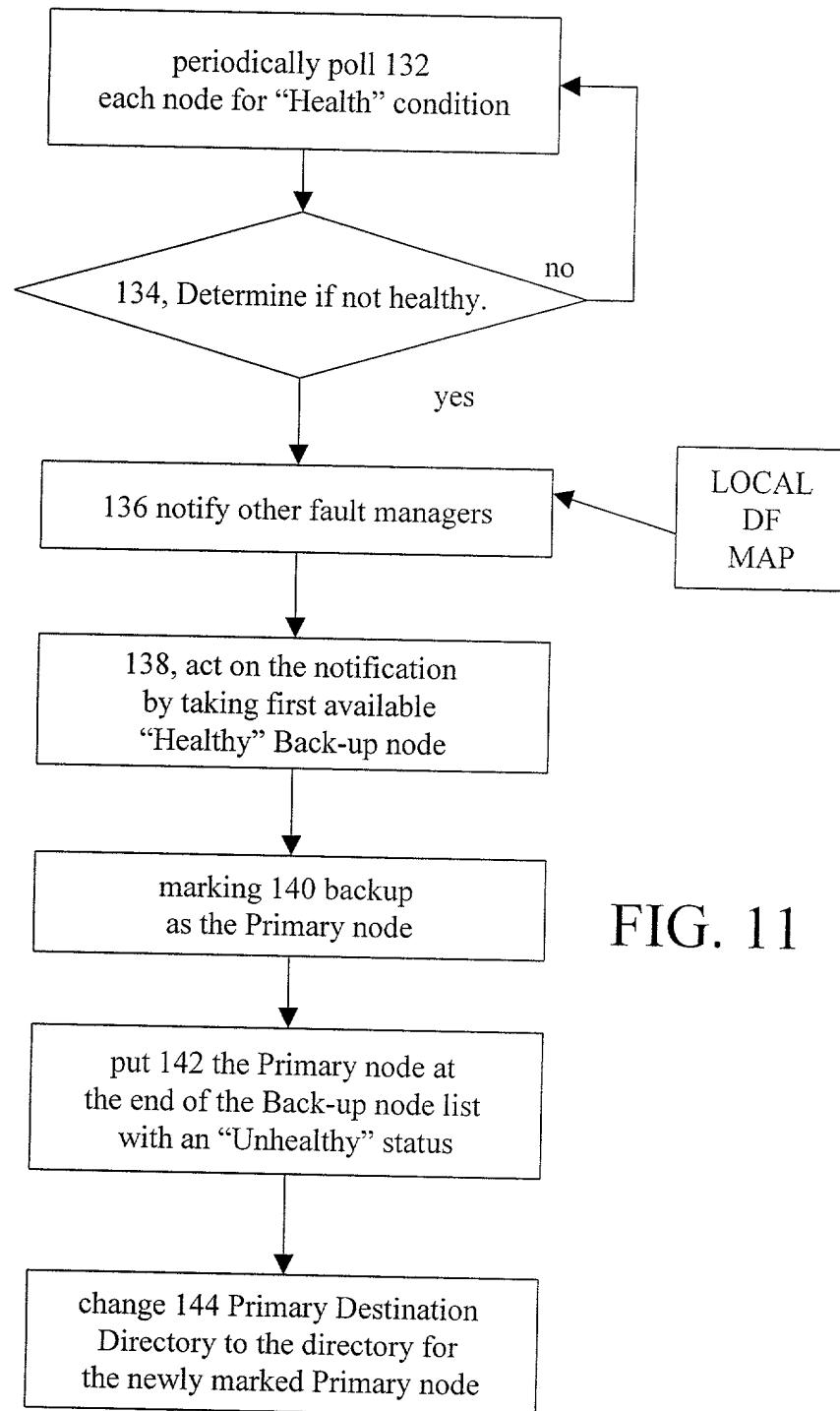


FIG. 11

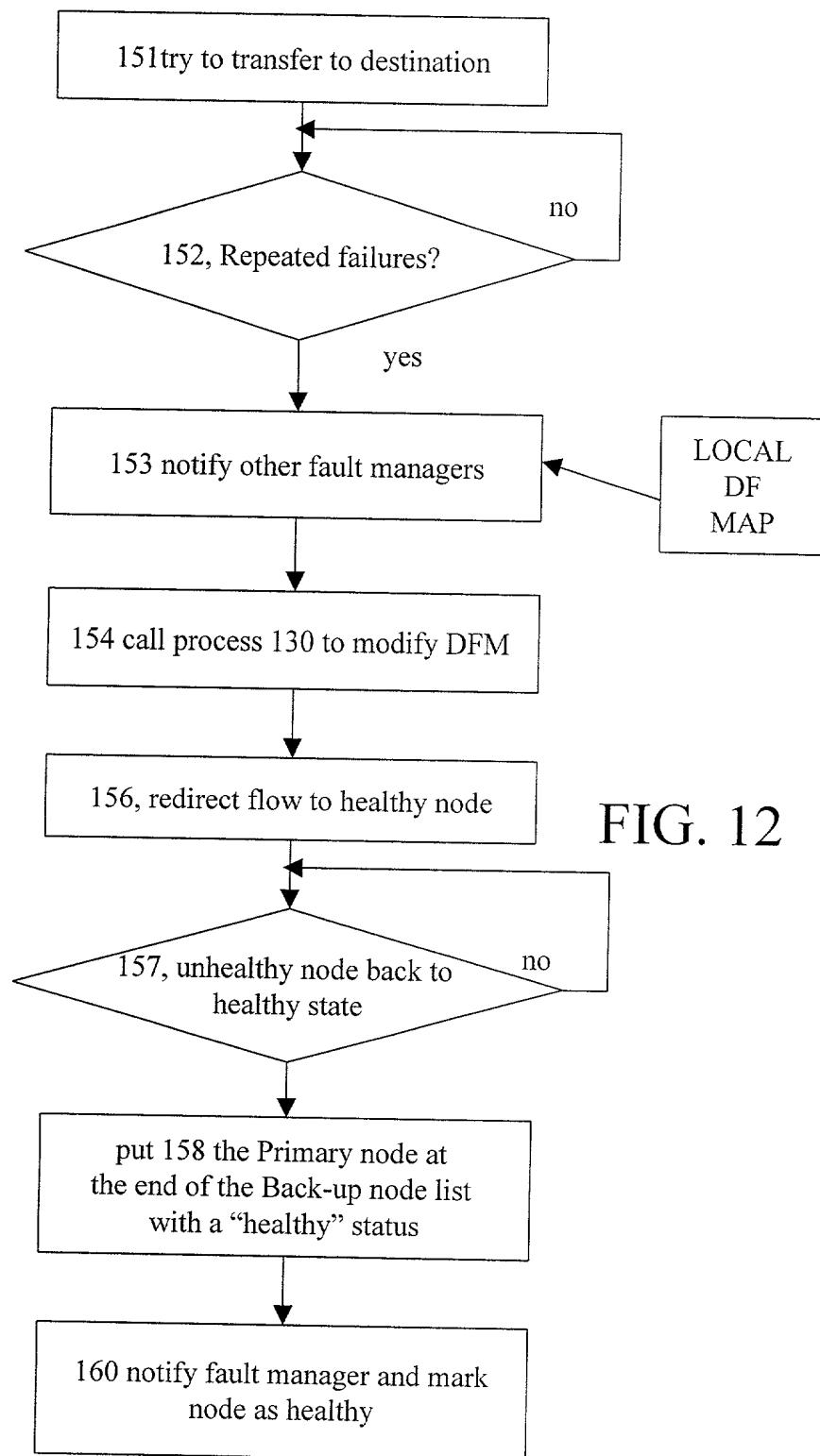


FIG. 12

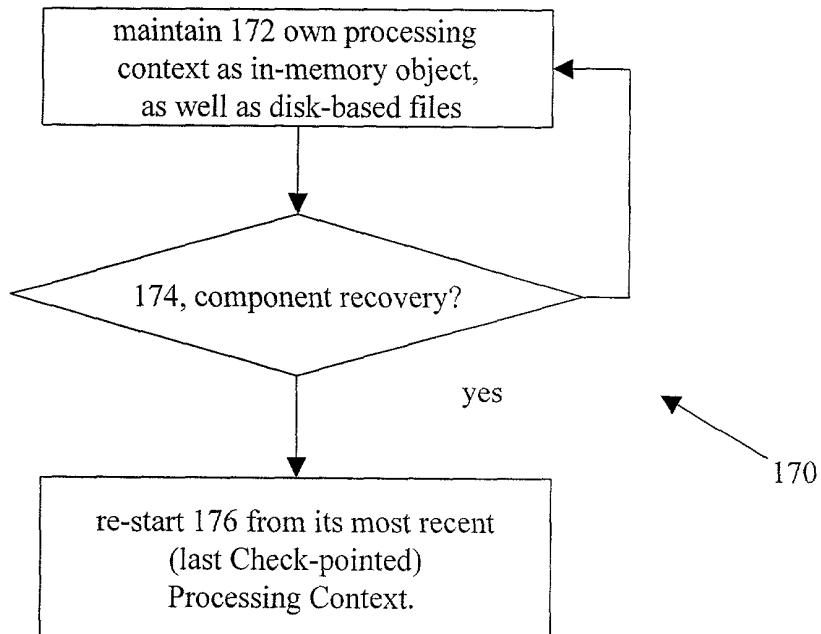


FIG. 13

DISTRIBUTED PROCESSING AND CRITERIA-BASED  
DYNAMIC MODIFICATION OF DATA-FLOW MAP

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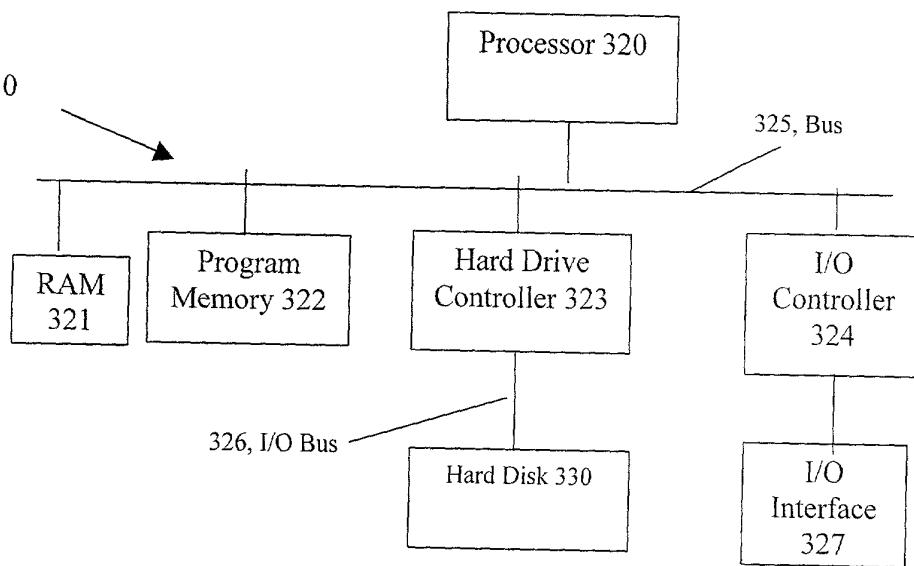


FIG. 14